

WHAT IS CLAIMED IS:

1. A jig for holding terminals provided on a connector, the terminals each having a horizontal part extending in a horizontal direction from a main body of the connector and a vertical part extending in a vertical direction and connected with the horizontal part at a lower portion, and a flange at an upper portion of the vertical part, the jig comprising:

a main body;

a predetermined number of widthwise positioning grooves formed in the main body and arrayed in a widthwise direction of the main body, the widthwise positioning groove being adapted for holding the horizontal part and a lower portion of the vertical part of each terminal; and

a predetermined number of back and forth positioning grooves formed in the main body and arrayed in a back and forth direction of the main body, the back and forth positioning groove being adapted for holding the flange of each terminal.

2. The jig according to claim 1, wherein each of the widthwise positioning grooves and the back and forth positioning grooves is formed with an introduction portion for allowing the corresponding terminal to move in the groove.

3. The jig according to claim 2, wherein the introduction portion includes opposite slanted surfaces.

defining a space whose width increases as advancing in an upper direction.

4. The jig according to claim 3, wherein each of the widthwise positioning grooves and the back and forth positioning grooves includes opposite parallel vertical surfaces below the introduction portion.

5. The jig according to claim 1, wherein a top level of a projection between adjacent back and forth positioning grooves more near to the main body of the connector is higher than a top level of a projection between adjacent back and forth positioning grooves further away from the main body of the connector.

6. The jig according to claim 5, wherein each of the widthwise positioning grooves and the back and forth positioning grooves is formed with an introduction portion for allowing the corresponding terminal to move in the groove.

7. The jig according to claim 6, wherein the introduction portion includes opposite slanted surfaces defining a space whose width increases as advancing in an upper direction.

8. The jig according to claim 7, wherein each of the widthwise positioning grooves and the back and forth positioning grooves includes opposite parallel vertical surfaces below the introduction portion.

9. A press fitting apparatus for press fitting terminals provided on a connector into corresponding connection holes formed in a substrate, the terminals each having a horizontal part extending in a horizontal direction from a main body of the connector and a vertical part extending in a vertical direction and connected with the horizontal part at a lower portion, and a flange at an upper portion of the vertical part, the press fitting apparatus comprising:

- a connector jig for holding the terminals of the connector;

- a substrate support member for supporting the substrate;

- a substrate jig for holding the substrate at a predetermined position;

- a driving mechanism for driving at least one of the connector jig and substrate jig to perform press-fitting of the terminals of the connector into the connection holes of the substrate;

- wherein the connector jig includes:

- a main body;

a predetermined number of widthwise positioning grooves formed in the main body and arrayed in a widthwise direction of the main body, the widthwise positioning groove being adapted for holding the horizontal part and a lower portion of the vertical part of each terminal; and

a predetermined number of back and forth positioning grooves formed in the main body and arrayed in a back and forth direction of the main body, the back and forth positioning groove being adapted for holding the flange of each terminal.

10. The press fitting apparatus according to claim 9, wherein each of the widthwise positioning grooves and the back and forth positioning grooves is formed with an introduction portion for allowing the corresponding terminal to move in the groove.

11. The press fitting apparatus according to claim 10, wherein the introduction portion includes opposite slanted surfaces defining a space whose width increases as advancing in an upper direction.

12. The press fitting apparatus according to claim 11, wherein each of the widthwise positioning grooves and the back and forth positioning grooves includes opposite parallel vertical surfaces below the introduction portion.

13. The press fitting apparatus according to claim 9, wherein a top level of a projection between adjacent back and forth positioning grooves more near to the main body of the connector is higher than a top level of a projection between adjacent back and forth positioning grooves further away from the main body of the connector.

14. The press fitting apparatus according to claim 13, wherein each of the widthwise positioning grooves and the back and forth positioning grooves is formed with an introduction portion for allowing the corresponding terminal to move in the groove.

15. The press fitting apparatus according to claim 14, wherein the introduction portion includes opposite slanted surfaces defining a space whose width increases as advancing in an upper direction.

16. The press fitting apparatus according to claim 15, wherein each of the widthwise positioning grooves and the back and forth positioning grooves includes opposite parallel vertical surfaces below the introduction portion.